



Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-07-26-09 Date: 30-07-18
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 26-07-18
Sample ID No : 2018-07-26-09 /02(a)
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 26-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	288	288	1.9	98.1	90-100
3	20 mm	7489	7777	51.8	48.2	30-70
4	10 mm	4489	12266	81.8	18.2	10-35
5	4.75 mm	2155	14421	96.1	3.9	0-5
6	Pan	579	15000	100.0	0	---



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Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-07-2018
Sample ID No : 2018-07-26-09 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 26-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken		:	5000	grams		
Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	285	285	5.7	94.3	90-100
3	10 mm	2898	3183	63.7	36.3	25-55
4	4.75 mm	1498	4681	93.6	6.4	0-10
5	Pan	319	5000	100	0	-

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-07-26-09
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-07-2018
Sample ID No : 2018-07-26-09 /03
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 26-07-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	16	16	1.6	98.4	90-100	90-100	90-100	95-100
3	2.36 mm	133	149	14.9	85.1	60-95	75-100	85-100	95-100
4	1.18 mm	201	350	35.0	65.0	30-70	55-90	75-100	90-100
5	600 micron	188	538	53.8	46.2	15-34	35-59	60-79	80-100
6	300 micron	199	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	172	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2018-07-26-09 Date: 30-07-2018

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-2018

Sample ID No : 2018-07-26-09 /07

Sample Type/Size : Solid concrete blocks of size (400X150X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1.Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 27-07-2018

BLOCK DENSITY:

SL No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	402	151	202	12262	24.850	2026.6	2032.4	Not less than 1800Kg/m ³
2	401	150	201	12090	24.610	2035.5		
3	402	149	200	11980	24.38	2035.1		

WATER ABSORPTION:

SL No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.910	24.450	5.97	5.63	Shall not be more than 10% by mass
2	25.670	24.310	5.59		
3	25.780	24.480	5.31		

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R. K. H. C.



TEST RESULTS OF STEEL

Lab ID : CP-2018-07-26-09 Date: 28-07-2018
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-07-2018
Sample ID No : 2018-07-26-09 /04
Sample Type : Sunvik
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test: : 27-07-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.391	548	668	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	563	678	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.882	574	691	19.5%	Satisfactory	Satisfactory

Note:

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Quality Manager



TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID : CP-2018-08-07-01 Date: 08-08-2018
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 07-08-1018
Sample ID No : 2018-08-07-01/06
Type of Sample : M.S Rectangular Pole(65X65X6)mm
Reference to BIS codes : IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing : 07-08-1018

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm ²	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm ²	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

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Quality Manager



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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/08/2018

Lab ID : CP-2018-08-03-08
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-08-2018
Sample ID No : 2018-08-03-08 /01
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CI.5

Date of test : 08/08/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M15	01/08/2018	08/08/2018	149.66 X 151.02 X 150.47	22602	8.201	280.3	12.4	12.3
2	PCC	M15	01/08/2018	08/08/2018	150.88 X 150.75 X 149.68	22745	8.156	286.6	12.6	
3	PCC	M15	01/08/2018	08/08/2018	150.77 X 150.23 X 150.46	22650	8.132	269.5	11.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-06-06 Date: 11/08/2018
 Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
 Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
 Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
 Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 06-08-2018
 Sample ID No : 2018-08-06-06 /01
 Customer ID : Compound wall
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
 Date of test : 11/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Compound wall	M20	04/08/2018	11/08/2018	149.77 X 151.24 X 150.98	22651	8.198	414.5	18.3	18.3
2	Compound wall	M20	04/08/2018	11/08/2018	150.23 X 150.47 X 150.44	22605	8.163	404.6	17.9	
3	Compound wall	M20	04/08/2018	11/08/2018	150.68 X 150.86 X 150.23	22732	8.149	422.8	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-06-06
 Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
 Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
 Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.
 Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
 Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 06-08-2018
 Sample ID No : 2018-08-06-06 /03
 Customer ID : Compound wall
 Sample Type /Size : 150X150X150 mm
 Sample grade/Age : M20 / 7 Days Compressive Strength
 Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C15

Date of test : 11/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Compound wall	M20	04/08/2018	11/08/2018	151.23 X 150.99 X 150.78	22834	8.169	399.6	17.5	17.2
2	Compound wall	M20	04/08/2018	11/08/2018	150.44 X 150.69 X 150.77	22670	8.146	383.1	16.9	
3	Compound wall	M20	04/08/2018	11/08/2018	150.27 X 150.69 X 150.22	22644	8.105	387.2	17.1	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-26-09 Date: 30-07-2018
Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division,
Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name : Construction of Compound wall and other development works to Indira
Canteen Kitchen at 9th main Adithanagara in Ward No.03.
Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 26-07-2018
Sample ID No : 2018-07-26-09 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2,3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 27-07-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 70%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.54	—
2	Fineness by Air permeability method (m ² /kg.Min)	289.5	225m ² /kg. Min
3	Density (gm/cc)	3.15	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-07-26-09 **Date:** 24-08-2018

Customer : Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite town Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound wall and other development works to Indira Canteen Kitchen at 9th main Adithanagara in Ward No.03.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Customer's Reference : BBMP/EE/YNK.D/W.O/000006/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-2018

Sample ID No : 2018-07-26-09 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 27-07-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	57.5N/mm ²	Not less than 53 N/mm ²

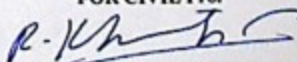
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